

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, December 2019

Course: PHYSICAL SECURITY

Program: B. TECH (CS+CSF)

Course Code: CSSF-3001

Semester: V

Time 03 hrs.

Max. Marks: 100

Instructions:

SECTION A (20 marks)

S. No.		Marks	CO
Q 1	State your understanding on Threat, Risk and Vulnerability.	4	CO1
Q 2	State and explain any four roles and responsibilities of a security personnel	4	CO4
Q 3	What do you mean by physical security assessment? When is the best time(s) to conduct a security audit in an organization?	4	CO3
Q 4	When, using the key control system, there is a need to eliminate the risk of password sharing and identify who accesses the system, what method is best suitable? Justify	4	CO2
Q 5	Explain the importance of physical security design in an organization	4	CO2

SECTION B (40 marks)

Q 6	Elaborate your views on intrusion alarm systems. State about the basic components required for the intrusion alarm systems.	10	CO2
Q 7	Elaborate various steps involved in conducting a physical security assessment/audit? OR Enlist the types of fire extinguisher and the types of fire in which they are used and the combination of which they are made from.	10	CO1, CO3
Q 8	Describe any five Intrusion alarm system used in residential/commercial/industrial or military properties for protection against burglary (theft) or property damage.	10	CO4
Q 9	Elaborate the following terms with example: a) Photoelectric smoke detector b) Mantraps c) Fire Detection Systems d) ISO/IEC 27001 e) Smart Security Locks	10	CO2, CO3

SECTION-C (40 marks)

Q 10	Write the steps required for risk assessment process. Do the risk assessment based on the identification of threats, associated vulnerabilities, impact determination and likelihood determination for any 5 assets of an organization (IT sector)	20	CO1, CO2
Q 11	Suppose you're looking to invest in fire or security rated doors or grilles for your business premises. Explain the standard (in detail) which you would like to follow to ensure safety of your physical security products against unauthorized access? OR	20	CO3, CO4

	Explain Loss Prevention Standard (in detail) to evaluate the resistance offered by various physical security products against unauthorized access.		